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SERIAL NUMBER	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.
08/056,029	04/30/93	BOYCE	FM-1121

SHELBORNE, K

15N1/1012

EXAMINER

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260 BEAR HILL ROAD  
WALTHAM, MA 02154

ART UNIT	PAPER NUMBER
1504	4 10/12/94

DATE MAILED:

This is a communication from the examiner in charge of your application.  
COMMISSIONER OF PATENTS AND TRADEMARKS

☒ This application has been examined ☒ Responsive to communication filed on 7/15/94 ☒ This action is made final.

A shortened statutory period for response to this action is set to expire 3 month(s), 0 days from the date of this letter.  
Failure to respond within the period for response will cause the application to become abandoned. 35 U.S.C. 133

Part I THE FOLLOWING ATTACHMENT(S) ARE PART OF THIS ACTION:

1. ☐ Notice of References Cited by Examiner, PTO-892.
2. ☐ Notice of Draftsman's Patent Drawing Review, PTO-948.
3. ☐ Notice of Art Cited by Applicant, PTO-1449.
4. ☐ Notice of Informal Patent Application, PTO-152.
5. ☐ Information on How to Effect Drawing Changes, PTO-1474.
6. ☐

Part II SUMMARY OF ACTION

1. ☒ Claims 1 - 23 are pending in the application.  
Of the above, claims 5, 8, 21 and 23 are withdrawn from consideration.
2. ☐ Claims have been cancelled.
3. ☐ Claims are allowed.
4. ☒ Claims 1-4, 6, 7, 9-15 and 19 are rejected.
5. ☐ Claims are objected to.
6. ☐ Claims are subject to restriction or election requirement.
7. ☐ This application has been filed with informal drawings under 37 C.F.R. 1.85 which are acceptable for examination purposes.
8. ☐ Formal drawings are required in response to this Office action.
9. ☐ The corrected or substitute drawings have been received on \_\_\_\_\_. Under 37 C.F.R. 1.84 these drawings are ☐ acceptable; ☐ not acceptable (see explanation or Notice of Draftsman's Patent Drawing Review, PTO-948).
10. ☐ The proposed additional or substitute sheet(s) of drawings, filed on \_\_\_\_\_, has (have) been ☐ approved by the examiner; ☐ disapproved by the examiner (see explanation).
11. ☐ The proposed drawing correction, filed \_\_\_\_\_, has been ☐ approved; ☐ disapproved (see explanation).
12. ☐ Acknowledgement is made of the claim for priority under 35 U.S.C. 119. The certified copy has ☐ been received ☐ not been received ☐ been filed in parent application, serial no. \_\_\_\_\_; filed on \_\_\_\_\_.
13. ☐ Since this application appears to be in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11; 453 O.G. 213.
14. ☐ Other

EXAMINER'S ACTION

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Art Unit: 1504

Applicants' amendment filed on 7-15-94 has been fully considered prior to this office action. The 35 USC 103 rejection of claims 1,2,4,6,14,15 and 16 over Holko in view of Krieder et al has been withdrawn.

The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

The following is a quotation of the first paragraph of 35 U.S.C. § 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

The specification is objected to under 35 U.S.C. § 112, first paragraph, for lack of enablement.

"Reinforcing elements" encompass steel reinforcing rods used in building construction. These are not contemplated by the disclosure. Particulate materials clearly could be dispersed throughout the thickness of a composite and be on the outside surfaces. It is true that the specification discloses adhesives and braze materials as suitable adherents but the claims are not so limited and this presents the problem. What else is encompassed by the term "adherents"?

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Claims 1-4,6,7,9-15 and 19 are rejected under 35 U.S.C. § 112, first paragraph, for the reasons set forth in the objection to the specification.

13, 14 dragging  
claw

Claims 1,3,7,9-15 and 19 are rejected under 35 U.S.C. § 103 as being unpatentable over Boyce et al '461 for reasons given in paper no. 2.

Applicant's arguments filed 7-15-94 have been fully considered but they are not deemed to be persuasive.

The applicant argues that Boyce does not disclose joining two composite parts or joining one composite part to another non-composite part. The Examiner disagrees and points to the Description of Particular Embodiments and throughout the specification.

Boyce teaches inserting reinforcing elements into a single improved composite part (10). The reinforcing structures 10 are positioned at desired locations on graphite-epoxy prepreg composite layup 30. Continued application of pressure drives the array of boron filaments 14 of the reinforcing structure 10 through the laminate 30 to impinge on support tool 32. After which the epoxy laminate 30 is cured and then the exposed ends 52 of reinforcing elements 14 are round flush, as indicated in Figure 7.

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THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 C.F.R. § 1.136(a).

A SHORTENED STATUTORY PERIOD FOR RESPONSE TO THIS FINAL ACTION IS SET TO EXPIRE THREE MONTHS FROM THE DATE OF THIS ACTION. IN THE EVENT A FIRST RESPONSE IS FILED WITHIN TWO MONTHS OF THE MAILING DATE OF THIS FINAL ACTION AND THE ADVISORY ACTION IS NOT MAILED UNTIL AFTER THE END OF THE THREE-MONTH SHORTENED STATUTORY PERIOD, THEN THE SHORTENED STATUTORY PERIOD WILL EXPIRE ON THE DATE THE ADVISORY ACTION IS MAILED, AND ANY EXTENSION FEE PURSUANT TO 37 C.F.R. § 1.136(a) WILL BE CALCULATED FROM THE MAILING DATE OF THE ADVISORY ACTION. IN NO EVENT WILL THE STATUTORY PERIOD FOR RESPONSE EXPIRE LATER THAN SIX MONTHS FROM THE DATE OF THIS FINAL ACTION.

Any inquiry concerning this communication should be directed to Kathryn E. Shelborne at telephone number (703) 308-2351.



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GROUP 150